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*Stated Meeting, February 17, 1860.*

Present, seventeen members.

Dr. GEORGE B. WOOD, President, in the Chair.

A letter was read from Dr. F. W. Lewis, acknowledging notice of his election.

A letter was read from Edward Sabine, of London, relative to the decease of Sir Francis Beaufort.

The following donations for the Library were received:—

Trans. Royal Irish Acad., xxiii, part 2. 4to. 1859.—*From the Academy.*

Proc. Royal Irish Acad., vii, parts 1 to 8. 8vo.—*From the same.*

Lloyd's Memoir on Light through Thin Plates. 4to.—*From the same.*

Lloyd's Memoir on Determining the Earth's Magnetic Force. 4to.—  
*From the same.*

Proc. Boston Soc. N. H., vii, sigs. 11, 12. Jan., 1860.—*From the Society.*

Memoirs Hist. Soc. Penna., vii. (500 pp. 8vo.)—*From the Society.*

Med. News and Library, xviii, No. 206.—*From Blanchard & Lea.*

Journ. Franklin Institute, No. 410.—*From the Institute.*

Ann. Rep. Penna. Inst. Deaf and Dumb. 1859.—*From the Board.*

Ann. Rep. Y. M. Mercantile Library Assoc. Cincinnati, 1859.—  
*From the Association.*

BEAUFORT (SIR FRANCIS).—Dr. Le Conte announced the death of Sir Francis Beaufort, December 17, 1857, æt. 84.

Mr. Lesley presented a communication from Mr. George Calhoun, of Philadelphia, exhibiting at the same time a model of his compound ventilator, eliciting explanations from Prof. Cresson.

Professor Cresson described the effects of the gale of February 9th and 10th at the City Gas Works, destroying a strong new building, 250 feet long by 57 wide and 54 high, lifting up the roof of iron, braced and stayed in the strongest manner, and weighing with its slates 300,000 pounds, and with it large portions of the walls.

(Continuation on page 292.)

(Continued from p. 176.)

Another exactly similar retort-house, standing within ninety feet of the one destroyed, as well as several smaller buildings around, was left comparatively uninjured. The conjecture was ventured that the waves of the gust may have corresponded in time with the normal vibrations of a roof of that particular shape and area. Upon this possibility, when the building is reconstructed, such isochronous vibrations will be guarded against by a lattice-work of horizontal braces from wall to wall, at an angle of forty-five degrees from end to end of the building, stiffened by girders. In attempting to escape, two of the workmen were killed ; the rest, paralyzed by terror, crouched on the floor, and were all saved. The building fell forward, in the direction of the wind, the roof falling partly outside of the fallen walls. Professor Cresson contrasted those narrow, vortical, undulatory meteors which prove so destructive when they traverse the American forest. Mr. Lesley described the Medford (Mass.) storm of 1851, in which the undulation of the tornado was rendered visible from each side of its track by the column of mud which it absorbed and held suspended in the air.

The minutes of the Board of Officers and Members of Council were read ; and, on motion of Prof. Cresson, the resolution, recommended for the adoption of the Society, was discussed, and, on motion of Judge King, postponed to the next meeting.

Pending nomination, No. 397, was read.

The chairman of the Committee on the Hall reported the selection and purchase of a carpet, and moved that the committee have authority granted them to renovate the principal room of the Society and the Librarian's room, which was granted.

On motion of Mr. Fraley, the Librarian was authorized to comply with the request of the Librarian of the Toronto University, and furnish Nos. of the Proceedings from No. 59 onward, and place the Toronto University upon the list of Corresponding Societies.

And the Society adjourned.